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CITY OF  
**BOLIVAR**

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January 27, 2015

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US EPA Region 7  
11201 Renner Blvd  
Lenexa, KS 66219

WENF JAN 30 2015

Enclosed is the annual sewer report for the City of Bolivar.

If you have any additional questions or concerns, please contact me.

A handwritten signature in cursive script that reads "Jerry Hamby". The signature is fluid and stylized, with the first and last names being clearly legible.

Jerry Hamby  
Public Works Director

**January 27<sup>th</sup> 2015**

### **SUMMARY OF INFORMATION COLLECTED**

During the tracking period beginning January 1, 2014 ending December 31, 2014 six bypasses were recorded at the wastewater treatment plant and three SSO events were recorded. Included is a spreadsheet titled "SSO BYPASS EVENT TRACKER" tabulating the events listed above. Also included are copies of the SSO/BYPASS reports and a map that shows the location of the events. The SSO reporting program we use is tied to our GIS program allowing us to map and track the locations of each SSO. Sewer department plans to record them on a sewer maintenance calendar.

### **CONFIRMED I/I SOURCES**

The City had accepted bids for approximately 3,000'-3,500' of 8" sewer pipe and 1,500'-2,000' of 10" sewer pipe in the 2013 calendar year. This work was completed by May of 2014. Attached you will find copies of the work performed by Insituform, this includes the linear footage of pipe lined, along with taps they were and were not cut out. Also included is a map of where the work was performed. Insituform lined 3,328' of 8" sewer main and 2,022' of 10" sewer main. Insituform documented 61 taps. Of these 61 taps, 25 were live, 17 were capped, and 19 were dead. Insituform lined over the dead and capped taps reducing the amount of taps into the main by nearly 60%. You will find the work performed by Insituform attached labeled "Insituform CIPP 2014".

In addition to the two projects (see below) crews have worked diligently on the replacement/addition of new services, taps, main, cleanouts and manholes. Their work is as follows. Crews replaced an additional 358' of 8", 730' of 4", 400' of 10", 30' of 12" sewer mains/services. Also, two manholes and one lamp hole were replaced. During normal preventative maintenance crews had repaired 42 cleanouts and one manhole ring. You will find this work performed on a spreadsheet titled "I & I Sources Confirmed".

We have been working on the Northern sewer collection basin; when in July of 2012 we received a wet weather flow study from Olson Associates that Scotts Consulting generated. This study confirmed that the North East section charted 14 times the normal flow. We have focused our time on that section because of its high priority. Our intention is to start with the highest flow increase (during rain events) and work towards the lowest. The 14x is the highest increase during saturated soils.

### **PREVENTIVE MAINTENANCE ACTIVITIES**

Our sewer department is made up of 5 crew members and has been busy this year cleaning, inspecting and repairing sewer mains. The results of their labor are as follows. Included in this report is a spreadsheet titled "Jetter Report". This spreadsheet lists and describes all cleaning and inspection of sewer mains and manholes performed during the reporting period beginning January 1, 2014 ending December 31, 2014. Crews cleaned 10.00 miles of sewer main (3.08 miles of said sewer main was root sawed); video inspected 4.55 miles of sewer mains and inspected 190 manholes during this reporting period.

Also included is a copy of the "Daily Lift Station Report" showing run times, any maintenance performed on each lift station and the rainfall totals when the rotors were shut off (bypasses) at the wastewater treatment plant.

#### **STATUS OF POA AND CIP**

The city purchased a flow meter for flow testing in May of 2014. Crews have completed some flow testing to the 14x the problem area, to see the progress that has been made with the current lining, tap and manhole replacement. Also plan to flow test after the CIPP of the problem area in the Spring of 2015. City's CIPP (cured-in-place-pipe) Project had put out bids in the 2014 calendar year for fiscal year of 2015. This project is near completion, and ahead of schedule. We also plan to keep our system of bidding approximately \$140,000 for CIPP lining. We will bid this out in 2015 Calendar year for work to be completed in the 2016 year.

In addition the City was seeking professional services in the 2014 year. Those projects were as follows. A sewer rate study, engineering for the removal of lift station 3 and RFQ's for WWTP improvements. The sewer rate study is currently still in process by Olsson Associates. This project is almost completed. The engineering services is also still in process for Lift Station #3. Olsson Associates is completing these services for City of Bolivar and still in process. The City had plans for some WWTP improvements, we put out RFQ's in the 2014 calendar year. City has accepted White River Engineering Inc. for these WWTP improvements.

Crews had two planned projects at the beginning of the 2014 year. Both projects were engineered in the fall of 2013. The projects were the West Broadway Project and the Albany and Locust project. The West Broadway project entailed in the replacement and extension of sewer main along West Broadway. This replaced two manholes, 525' of 8" sewer main, added an additional two manholes, 300' of 4" sewer service and an added seven new taps. The Albany and Locust project entails the replacement and rerouting of the sewer main. This main had given us sever problems in the past. Main was also routed underneath a shop. This project removed one lamp hole and replaced two manholes, added one new manhole, 380' of 8" sewer main, 400' of 4" and added seven taps. Both projects have been completed.

City has been keeping track of a call log for reported sewer problems. In addition we have been mapping our SSO's on our GIS system. The city has been weighing its options with the GIS system. Currently the city is linked with Polk County on their GIS system. City has been considering going on its own.

#### **VIOLATIONS**

We received one "Notice of Violation" notice from the Southwest Regional Office of the Missouri Department of Natural Resources during the reporting period beginning January 1, 2014 ending December 31, 2014. In the month of September our permit limits were exceeded for Ammonia as N and E Coli. Included is a copy of the "Notice of Violation's."